Lab ID : **CP-2017-03-27-09**

Date: 30-03-17

Sample ID No : 2017-03-27-09-04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	202	81002	350.2	4.3	4.4
2	402	201	80802	354.2	4.4	
3	402	201	80802	352.4	4.4	
4	401	200	80200	368.5	4.6	
5	403	200	80600	370.2	4.6	
6	401	201	80601	360.5	4.5	
7	401	202	81002	358.2	4.4	
8	400	201	80400	354.2	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-27-05** **Date: 28/04/2017**

Customer : Assistant Executive Engineer, Project Division, BBMP, Bangalore.

Address : Project Division, BBMP, Bangalore.

Project Name : Providing and Fixing Play and Gym Equipments in Yelahanka New Town, 5th phase in ward no.02.

Agency : Technical Manager (west), KRIDL, Bangalore

Customer's Reference : EE(Project)/Ynk Zone/WO/37/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-17

Sample ID No : 2017-04-27-05-01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	21/04/2017	28/04/2017	150.22 X 150.24 X 150.25	22569	8.321	415.3	18.4	18.3
2	M20 Concrete	M20	21/04/2017	28/04/2017	150.30 X 150.34 X 150.29	22596	8.345	409.0	18.1	
3	M20 Concrete	M20	21/04/2017	28/04/2017	150.25 X 150.26 X 150.24	22577	8.310	413.2	18.3	

Note:

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Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-27-05**

Date: 19/05/2017

Customer : Assistant Executive Engineer, Project Division, BBMP, Bangalore.

Address : Project Division, BBMP, Bangalore.

Project Name : Providing and Fixing Play and Gym Equipments in Yelahanka New Town, 5th phase in ward no.02.

Agency : Technical Manager (west), KRIDL, Bangalore

Customer's Reference : EE(Project)/Ynk Zone/WO/37/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-17

Sample ID No : 2017-04-27-05-02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	21/04/2017	19/05/2017	150.22 X 150.24 X 150.25	22569	8.321	478.5	21.2	21.4
2	M20 Concrete	M20	21/04/2017	19/05/2017	150.30 X 150.34 X 150.29	22596	8.345	485.8	21.5	
3	M20 Concrete	M20	21/04/2017	19/05/2017	150.25 X 150.26 X 150.24	22577	8.310	487.7	21.6	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-03-29-03**	**Date: 02-04-17**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.	
Address	:	Project Division, BBMP, Bangalore.	
Project Name	:	Providing and Fixing Play and Gym Equipments in Yelahanka New Town, 5th phase in ward no.02.	
Agency	:	Technical Manager (west), KRIDL, Bangalore	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/37/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-03-17	
Sample ID No	:	2017-03-29-03-01	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	29/03/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.236	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.322	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.248	4476	81.5	18.2	16.9	21.2

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-03-29-03**	**Date: 02-04-17**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.	
Address	:	Project Division, BBMP, Bangalore.	
Project Name	:	Providing and Fixing Play and Gym Equipments in Yelahanka New Town, 5th phase in ward no.02.	
Agency	:	Technical Manager (west), KRIDL, Bangalore	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/37/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-03-17	
Sample ID No	:	2017-03-29-03-02	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	29/03/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	16.8	21.0
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

****End of Report****

CP/TF/01

CEMENT CONCRETE FLOORING TILES

Lab ID	:	**CP-2017-03-29-03**	**Date: 01-04-17**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.	
Address	:	Project Division, BBMP, Bangalore.	
Project Name	:	Providing and Fixing Play and Gym Equipments in Yelahanka New Town, 5th phase in ward no.02.	
Agency	:	Technical Manager (west), KRIDL, Bangalore	
Customer Reference	:	EE(Project)/Ynk Zone/WO/37/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-03-17	
Sample ID No	:	2017-03-29-03-03	
Sample Type/ Size	:	Pre-Polished Designer Cement Concrete Tiles	
Reference to BIS codes	:	IS 1237:2012	
Date of test	:	29-03-17	

1.Wet Transverse Strength

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	400	400	25.02	7.4	7.22	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.03	6.9		
3	400	401	25.11	7.8		
4	400	399	25.06	7.5		
5	402	400	25.18	6.8		
6	400	400	25.13	6.9		

2. Water Absorption

Sl.No.	Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	401	400	25.03	2.47	2.875	The average percentage of water absorption shall not exceed 10.
2	400	401	25.01	2.17		
3	400	400	25.14	3.03		
4	401	400	25.12	3.15		
5	400	401	25.17	3.27		
6	399	400	25.26	3.16		

Note:
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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

End of Report

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